

WHAT IS CLAIMED IS:

1. A magnetic filter adapter for removing magnetically attractable particles from a fluid, comprising:

an adapter body comprising a perforated upper portion and a perforated lower portion;

a centrally located opening passing through said upper portion and said lower portion;

a hollow insert mounted inside said opening and providing a first threaded portion adapted to engage a threaded stud and a second threaded portion adapted to mount to a filter; and

a magnet disposed within said adapter body for removing metallic particles from said fluid.

2. The adapter of Claim 1, wherein said magnet is in the shape of a ring.

3. The adapter of Claim 2, comprising a ring support for mounting said magnet to said adapter body such that a gap exists between said magnet and said upper portion.

4. The adapter of Claim 1, wherein said upper portion comprises at least one sealing gasket.

5. The adapter of Claim 1, wherein said perforated upper portion comprises a circular pattern of perforations.

6. The adapter of Claim 1, wherein said perforated lower portion comprises a circular pattern of perforations.

7. The adapter of Claim 1, wherein said fluid is oil.

8. The adapter of Claim 1, wherein said fluid is transmission fluid.

9. The adapter of Claim 1, wherein said fluid is hydraulic fluid.

10. An adapter for removing metallic particles from a fluid, comprising:

a cylindrical adapter body comprising a perforated upper portion and a perforated lower portion;

a centrally located opening passing through said upper portion and said lower portion;

a hollow insert mounted inside said opening and providing a first connection means adapted to engage a connection means on a fluid source and a second connection means adapted to mount to a filter; and

a magnet disposed within said adapter body for removing metallic particles from said fluid.

11. The adapter of Claim 10, wherein said first connection means comprises a first threaded portion and said second connection means comprises a second threaded portion.

12. The adapter of Claim 10, wherein said upper portion comprises at least one sealing gasket.

13. The adapter of Claim 10, wherein said perforated upper portion comprises a circular pattern of perforations.

14. The adapter of Claim 10, wherein said perforated lower portion comprises a circular pattern of perforations.

15. The adapter of Claim 10, wherein said fluid source is an automobile engine.

16. The adapter of Claim 10, wherein said magnet is in the shape of a ring.

17. The adapter of Claim 16, comprising a ring support for mounting said magnet to said adapter body such that a gap exists between said magnet and said upper portion

18. The adapter of Claim 17, wherein said ring support is comprised of three pieces having notches corresponding to the thickness of said magnet.

~~19.~~ A method of assembly of an adapter for removing metallic particles from a fluid, comprising;

inserting a magnet in a perforated, lower portion of a housing of said adapter;

enclosing said magnet in said adapter by attaching a perforated upper portion of a housing of said adapter to said perforated lower portion; and

inserting a hollow insert in a centrally located opening passing through said upper portion, said lower portion, and said magnet.

20. The method of Claim 19, further comprising attaching a sealing gasket to said upper portion.

21. The method of Claim 19, further comprising, before inserting said magnet in said perforated upper portion, mounting said magnet to a ring support and then inserting said ring support along with said magnet in said lower portion of said adapter.

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